

AMENDMENTS TO THE CLAIMS

The following listing of claims lists the status of every claim that is, or ever was, in the present application. This listing will replace all prior listings, and versions, of claims in the present application.

Listing of claims:

1. (currently amended) A polymer tissue fixation device for implantation into a living body, said polymer fixation device (i) comprising a porous body comprising at least one biopolymer and a plurality of pores, and (ii) being gradually resorbable by said living body, wherein at least at room temperature and within a zone of time that is defined by being from prior to said implantation up through said implantation. said porous body inherently possesses the property of being smoothly bent upon being subjected to a bending force, said bending force at least partially but irreversibly collapsing a portion of the pores to form a radius curve, whereby said porous body (a) inherently maintains said radius curve upon removal of the bending force, and (b) is rigid enough to protect a tissue attached to said device from shifting.
2. (original) The polymer tissue fixation device of claim 1 wherein the porous body can be smoothly bent to conform to a tissue structure.
3. (original) The polymer tissue fixation device of claim 1 wherein the porous body can be smoothly bent to conform to a tissue structure, said smooth bending being capable of occurring at a temperature below the glass transition point of the polymer.

4. (original) The polymer tissue fixation device of claim 1 wherein the porous body comprises a plurality of porous zones, wherein at least one zone of pores is less able to withstand compressive force than other zones.
5. (original) The polymer tissue fixation device of claim 4 wherein the porous body can be compressed against an irregular surface, whereupon less than all of the pores collapse, and the device conforms to the irregular surface.
6. (original) The polymer tissue fixation device of claim 1 wherein the pores are arranged to yield and selectively collapse to allow for placement of a fastening device to fasten the polymer fixation device within the living body.
7. (original) The polymer tissue fixation device of claim 1 wherein the porous body is capable of being fastened within the living body by means of an adhesive.
8. (original) The polymer tissue fixation device of claim 1 wherein the porous body is capable of being fastened within the living body by a fastening device, said fastening device selected from the group consisting of a wire, a staple, a suture, a pin, a nail, a tack, a screw, and a clamp.
9. (original) The polymer tissue fixation device of claim 1 further comprising a plurality of holes extending through the prosthesis, said plurality of holes serving as a fastening location.
10. (original) The polymer tissue fixation device of claim 1 wherein the porous body further comprises additional material.

11. (original) The polymer tissue fixation device of claim 10 wherein the additional material further comprises biologically active agents.
12. (original) The polymer tissue fixation device of claim 10 wherein the additional material further comprises particulate material, said particulate material being arranged to enable the polymer fixation device to deliver biologically active agents.
13. (original) The polymer tissue fixation device of claim 10 wherein the additional material further comprises particulate material, said particulate material being arranged to impart greater rigidity to the tissue fixation device.
14. (withdrawn) The polymer tissue fixation device of claim 10 wherein the additional material is radio-opaque.
15. (original) The polymer tissue fixation device of claim 10 wherein the additional material comprises microspheres.
16. (original) The polymer tissue fixation device of claim 10 wherein the additional material is distributed throughout the device.
17. (original) The polymer tissue fixation device of claim 10 wherein the additional material is distributed unevenly throughout said device.
18. (withdrawn) The polymer tissue fixation device of claim 10 wherein the additional material serves to alter the rate of resorption of the polymer fixation device.

19. (currently amended) A bendable polymer tissue fixation device for implantation into a living body, said polymer fixation device (i) comprising a composite comprising a porous body defining a plurality of pores, and at least one strengthening agent contained within said porous body, and (ii) being capable of being resorbed by said living body, wherein at least at room temperature and within a period of time that is from prior to said implantation up through said implantation. said porous body intrinsically possesses the characteristics of being capable of being smoothly bent upon exposure to a bending force, said bending collapsing a portion of the pores to form a radius curve, whereby said porous body (a) maintains said radius curve upon removal of the bending force, and (b) is rigid enough to protect a tissue fixed to said device from shifting.
20. (original) The polymer tissue fixation device of claim 19 wherein the porous body can be smoothly bent to conform to a tissue structure.
21. (original) The polymer tissue fixation device of claim 19 wherein the porous body can be smoothly bent to conform to a tissue structure, said smooth bending being capable of occurring at a temperature below the glass transition point of the polymer.
22. (original) The polymer tissue fixation device of claim 19 wherein the porous body comprises a plurality of porous zones, where in at least one zone of pores is less able to withstand compressive force than other zones.
23. (original) The polymer tissue fixation device of claim 22 wherein the porous body can be compressed against an irregular surface, whereupon less than all of the pores collapse, and the device conforms to the irregular surface.

24. (original) The polymer tissue fixation device of claim 19 wherein the pores are arranged to yield and selectively collapse to allow for placement of a fastening device to fasten the polymer fixation device within the living body.
25. (original) The polymer tissue fixation device of claim 19 wherein the porous body is capable of being fastened within the living body by means of an adhesive.
26. (original) The polymer tissue fixation device of claim 19 wherein the porous body is capable of being fastened within the living body by a fastening device, said fastening device selected from the group consisting of a wire, a staple, a suture, a pin, a nail, a tack, a screw, and a clamp.
27. (original) The polymer tissue fixation device of claim 19 further comprising a plurality of holes extending through the prosthesis, said plurality of holes serving as a fastening location.
28. (original) The polymer tissue fixation device of claim 19 wherein the porous body further comprises additional material.
29. (original) The porous body of claim 28 wherein the additional material further comprises biologically active agents.
30. (original) The porous body of claim 28 wherein the additional material further comprises particulate material, said particulate material being arranged to enable the polymer fixation device to deliver biologically active agents.

31. (original) The porous body of claim 28 wherein the additional material further comprises particulate material, said particulate material being arranged to impart greater rigidity to the tissue fixation device.
32. (withdrawn) The porous body of claim 28 wherein the additional material is radio-opaque.
33. (original) The porous body of claim 28 wherein the additional material comprises microspheres.
34. (original) The porous body of claim 28 wherein the additional material is distributed throughout the device.
35. (original) The porous body of claim 28 wherein the additional material is distributed unevenly throughout said device.
36. (withdrawn) The porous body of claim 28 wherein the additional material serves to alter the rate of resorption of the polymer fixation device.
37. (original) The polymer tissue fixation device of claim 19 wherein the strengthening agent is biodegradable.
38. (original) The polymer tissue fixation device of claim 19, wherein the strengthening agent is arranged in the form selected from the group consisting of a mesh, a weave, a knit, and a random arrangement of fibers.
39. (original) The polymer tissue fixation device of claim 1, further comprising a first layer having a first pore density, a second layer having a second pore

density, and a third layer having said first pore density, with a transitional interface between the adjoining layers.

40. (original) The polymer tissue fixation device of claim 19, further comprising a first layer having a first pore density, a second layer having a second pore density, and a third layer having said first pore density, with a transitional interface between the adjoining layers.
41. (withdrawn) The polymer tissue fixation device of claim 1, further comprising a first layer having a first pore density, a second layer having a second pore density, and a third layer having a third pore density, with a transitional interface between the adjoining layers.
42. (withdrawn) The polymer tissue fixation device of claim 19, further comprising a first layer having a first pore density, a second layer having a second pore density, and a third layer having a third pore density, with a transitional interface between the adjoining layers.
43. (withdrawn and currently amended) A bendable polymer tissue fixation device for implantation into a living body, said polymer fixation device comprising a laminar body having an first layer, a second layer and an interface, said first layer comprising a porous form of a polymer material, said second layer comprising a non-porous form of said polymer material; said polymer material comprising a biopolymer, said porous form transitioning to the non-porous form at said interface, wherein at least at room temperature and within a period of time that is from prior to said implantation up through said implantation. said laminar body possesses the following properties: being capable of being smoothly bent upon application of a bending force, the bending force permanently collapsing a portion of the pores of the porous

form to prevent cracking or breaking of the non-porous form, and said laminar body maintaining said bent condition following removal of the bending force.

44. (withdrawn and currently amended) A bendable polymer tissue fixation device for implantation into a living body, said polymer fixation device comprising a laminar body having an first layer, a second layer and an interface, said first layer comprising a porous form of a first polymer material, said second layer comprising a non-porous form of a second polymer material; said first and second polymer materials comprising biopolymers, said porous form comprising a plurality of pores, said porous form transitioning to the non-porous form at said interface, wherein at least at room temperature and within a period of time that is from prior to said implantation up through said implantation. said laminar body intrinsically is capable of being smoothly bent by a bending force that irreversibly collapses a portion of the pores of the porous form to prevent cracking or breaking of the non-porous form, and wherein said laminar body intrinsically maintains said bent condition following removal of the bending force.
45. (withdrawn) The polymer tissue fixation device of claim 11, wherein at least a portion of said biologically active agent is located within at least a portion of said pores.
46. (withdrawn) The polymer tissue fixation device of claim 11, wherein at least a portion of said biologically active agent is located within the polymer of said polymer fixation device.
47. (original) The polymer tissue fixation device of claim 1, further being capable of being cut using surgical scissors.

48. (original) The polymer tissue fixation device of claim 1, further being capable of being cut out of a large sheet of similar material by a punching operation.
49. (original) The polymer tissue fixation device of claim 1, wherein the porous body is capable of being smoothly bent without the need for heating.
50. (original) The polymer tissue fixation device of claim 1, wherein the porous body is capable of being smoothly bent without the need for special tools.
51. (currently amended) A deformable polymer tissue fixation device for implantation into a living body, said polymer fixation device (a) comprising a porous body comprising at least one biopolymer and a plurality of porous zones, and (b) is resorbable by said living body, wherein at least at room temperature and from prior to said implantation up through said implantation. said porous body inherently possesses the properties of: at least one of the zones is less able to withstand compressive force than at least one other zone such that the porous body can be compressed against an irregular surface, whereupon less than all of the pores collapse, said collapse not being reversible by said porous body, wherein the device conforms to the irregular shape, wherein the device continues indefinitely to conform to the irregular shape after the compressive force is removed, and further wherein the device is rigid enough to isolate and protect a tissue fastened to said device from shifting.
52. (previously presented). The bendable polymer tissue fixation device of claim 1, wherein said device does not require ingrowth of new tissue of said living body as said device resorbs.